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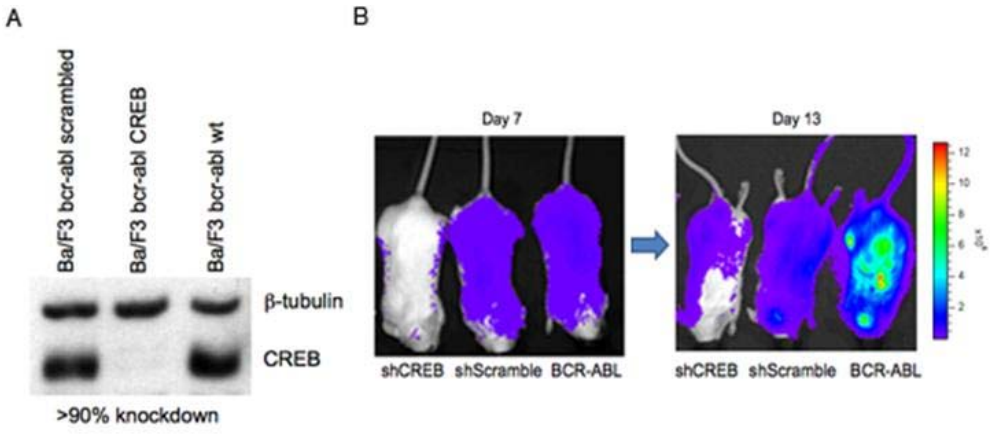
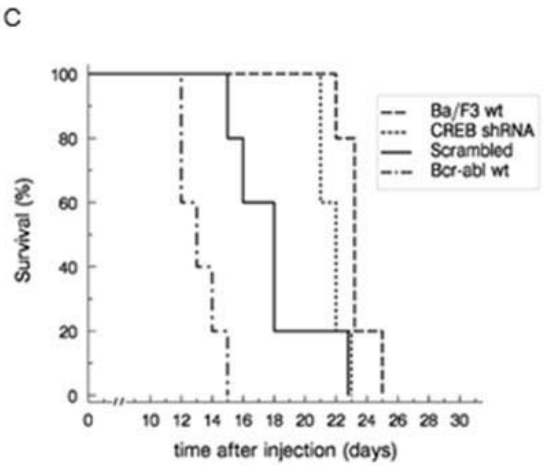
CREB is a critical regulator of normal hematopoiesis and leukemogenesis
Blood Cheng et al. 111: 1182

Supplemental materials for: Cheng et al

Files in this Data Supplement:

- Figure S1. Knockdown of CREB in Ba/F3 bcr-abl expressing cells (JPG, 38.6 KB) - (A) Western blot analysis with CREB and tubulin anti-sera demonstrates >90% knockdown of CREB in murine pro-B lymphocyte (Ba/F3) bcr-abl wild type cells after lentiviral transduction with CREB shRNA. Transduction with a scrambled shRNA sequence demonstrates little effect on CREB expression. (B) Bioluminescence imaging of SCID mice displays reduced tumor burden in CREB shRNA mice. SCID mice (n=5 each group) were injected with 1 × 10^6 cells from four cell lines: wt Ba/F3 bcr-abl, Ba/F3 bcr-abl transduced with CREB shRNA, Ba/F3 bcr-abl transduced with scrambled shRNA, and Ba/F3 wt alone (not shown in figure). Mice were imaged at day 7 and day 13. Geometric mean bioluminescence in the scrambled shRNA group was 3.3-fold larger than CREB knockdown at day 7 and 3.6-fold at day 13 (95% confidence intervals 1.7-6.4 fold and 1.6-8.0 fold, respectively). Bioluminescence was also significantly elevated above knockdown for untransduced Ba/F3 bcr-abl and Ba/F3 alone cells at day 7 (15- and 8.6-fold, respectively) and day 13 (9.6- and 6.4-fold, respectively). (C) Kaplan-Meier survival analysis of SCID mice injected with 1 × 10^6 cells (n=5 each group) shows longer survival with CREB knockdown compared with scrambled shRNA and Ba/F3 bcr-abl cells alone. All deaths were due to leukemia.





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